

**To:** Way, Steven[way.steven@epa.gov]  
**Cc:** Ostrander, David[Ostrander.David@epa.gov]  
**From:** Griswold, Hays  
**Sent:** Sun 10/25/2015 9:13:20 PM  
**Subject:** Re: Bureau of Reclamation (BOR) Oct., 2015 Report Issues

David, I have been going through the BOR report and have found statements that if not mistakes, misinterpretations, inaccuracies, are outright lies.

Which may be attributable to the fact that the author slept through my entire 30 to 45 minute blow-by-blow presentation of the events of 10/4 and 10/5 complete with pictures and explanations similar to the written one with pictures sent to you a while back.

For instance at one point he states that EPA, DRMS, ER, START, discussed the situation (when the blockage was exposed) and decided to open it up. That is an outright lie. We decided that was far enough and we would clean off the loose dirt on top. I do not know where he got the idea "we decided to dig it out" that had not entered my mind or anyone else's that I know of. Perhaps he dreamed that in his sleep while I was giving my presentation.

Anyway I have more...

Hays

Sent from my iPad

On Oct 25, 2015, at 2:00 PM, Way, Steven <[way.steven@epa.gov](mailto:way.steven@epa.gov)> wrote:

David,

I have not checked these comments against the report, but here are some observations by others about the USBR report.

Also, this information is related to proposal that I previously forwarded to you.

Steve

Steven Way

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**From:** John Reynolds [<mailto:durango@animas.net>]  
**Sent:** Sunday, October 25, 2015 11:55 AM  
**To:** Way, Steven; Schmittiel, Paula; StClair, Christie  
**Subject:** Bureau of Reclamation (BOR) Oct., 2015 Report Issues

Hi Steve,

The attached file ("1509043 Final 092315 1703.pdf") are the water assay data we acquired 01 Sept., 2015 from the American Tunnel outflow (SIL-07) and from the Gold King Mine #7 outflow (SIL-08) as analyzed by Green Analytical here in Durango. These are the water samples that we flew to the Winner Water Group in Pennsylvania for their water quality / remediation work and we expect their input about treatment options for these waters shortly. Basic input from Mr. Todd Beers, C.O.O. of the Winner Water Group, has been positive and selecting the desired level of output water quality appears to be the major issue.

Also attached are documents that take strong exception to the recently released Bureau of Reclamation report as follows - basically, the Bureau of Rec blew it!:

The Bureau of Reclamation's (BOR) "Technical Evaluation of the Gold King Mine Incident", dated October, 2015, has some issues with accuracy that are a bit puzzling. One possible answer for the inaccuracies regarding the actual dimensions on Bulkhead #2 and Bulkhead #3 in the American Tunnel is that they may have been given incorrect information. That said, here are the Facts:

[note: here's a link to BOR document: <http://www.usbr.gov/docs/goldkingminereport.pdf>]

Attached are two (2) official documents regarding the final design and installation of the

American Tunnel Bulkhead #2 and Bulkhead #3 and are essentially "As Built" reports from the Sunnyside Gold Corporation (Echo Bay Mines) as filed with the Colorado Division of Minerals and Geology. The reports are entitled as follows:

**"File No. M-77-378, TR-25  
American Tunnel Bulkhead No. 2  
Construction Certification Report"**

and

**"File No. M-77-378, TR-25  
American Tunnel Bulkhead No. 3  
Construction Certification Report"**

Please note that on page 3 of the Construction Certification Report for **Bulkhead No. 2** the fourth paragraph reads:

**"..... The minimum bulkhead length was specified to be 10' and the actual length was 10' 1"."**

The Colorado Division of Mines and Geology website also has the final approval for the Construction Certification Report - also attached. The final approval from the DMGRMS for Bulkhead #3 isn't readily available on their website.

On page 3 of the Construction Certification Report for **Bulkhead No. 3**, the third paragraph reads:

**"..... The minimum bulkhead length was specified to be 11' and the actual length was 11' 2"."**

The Bureau of Reclamation report dated October, 2015 states in Appendix B, page B-4:

"CO 1993 American Tunnel, Sunnyside Mine, San Juan County  
Three 25-foot-long concrete bulkheads were installed by Sunnyside Gold, Inc., to minimize adit drainage and restore premining groundwater conditions.  
The first bulkhead was installed in 1993, followed by installation of a second bulkhead in 2002. Around 1997, 652 tons of hydrated lime were injected  
into the mine pool to neutralize the water and help reduce pyrite oxidation and acid generation."

Bulkhead No. 1 was installed in the American Tunnel in 1993 and the length of this bulkhead was 25 feet. ***However, Bulkhead No. 2 and Bulkhead No. 3 were installed in 2002 and 2003, respectively, and they are not 25 feet in length!***

***I find it very interesting that they bury the bulkhead dimensions in the text of an Appendix when this is probably the most critical factor about the current situation - the waters in the mountain are already over 800 feet in hydraulic pressure (or hydrostatic head)! The two bulkheads, AS INSTALLED, are rated at BH#2 - 640 feet and BH#3 -***

***773 feet, respectively. The bulkhead at the Red and Bonita is currently open but if the EPA closes this bulkhead, and additional ~300 gallons per minute (gpm) will be stopped from flowing out of the mountain and that will increase the pressure on the entire hydraulic system with in the mountain and push the hydrostatic/hydraulic head that much higher!***

The most glaring inaccurate statement from the main body of the report is found on page 17 which states: "After installing hydraulic bulkheads in the Mogul Mine in 2003, increased flows began to come from the Red and Bonita and the Gold King Mines, and eventually the ARSG listed these as their top two priorities for remediation." This is not correct as the flows in the Red and Bonita, Gold Kine ***and*** the Mogul all started to increase following the installation of Bulkhead #2 and Bulkhead #3 in the American Tunnel.

The EPA report "POLREP #1 (Initial Pollution Report) – Removal Assessment Gold King Mine Site". dated Sept. 25, 2014 (attached), states the following: "The flow from the Red and Bonita Mine, the Gold King (Level 7) Mine, and the Mogul Mine all experienced significant increases in flow following the plugging of the American Tunnel that occurred between 1998 and 2002. Water quality in the Animas River has been degraded progressively since that time."

The mistake is not significant but it points to the apparent lack of quality in the report generated by the Bureau of Reclamation along with an incomplete peer review from the USGS and USACE.

Please do not hesitate to contact us if you have any questions or comments.

Regards,  
John Reynolds  
*durango geophysical operations*  
970-759-1800

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<BH3\_ConstructionCertificationReport.pdf>

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